

Safety and efficiency

BIRCOport

Monolithic reinforced concrete channels for maximum loads



Self-supporting drainage channels
for airports and ports

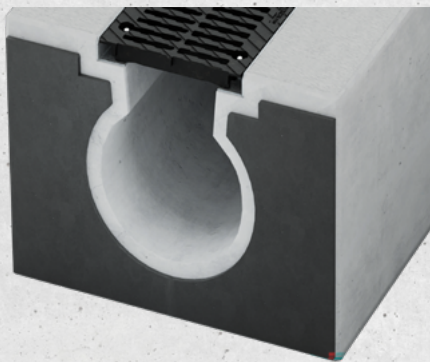
BECAUSE WATER
IS PRECIOUS.

BIRCO
WATER CYCLE SOLUTIONS

At airports, there is no room for compromise. High traffic volumes, large-scale infrastructure and challenging weather conditions place extreme demands on drainage systems. Experience, technical expertise and solutions that work right from the start are required here.

BIRCOport is a drainage system that has proven its worth over decades and is in use at many airports worldwide. It meets all the requirements of a high-performance channel system in this environment: stability, durability, Type I installation and rapid availability. The DIBt* approval provides reassurance right from the planning stage and ensures the project progresses swiftly.

With almost 100 years of experience in drainage, **BIRCO** is a partner you can trust. Our expertise is incorporated into every detail of our drainage solutions, ensuring maximum safety, long-lasting quality and a partnership based on mutual respect.



Pre-fitted memory foam panel at the end of the channel to form a joint (expansion/sealing joint)

Applications for BIRCOport

- + Airports/Airside
- + Inland and seaports
- + Container terminals and logistics areas
- + Areas with maximum loads
- + Military operating areas
- + WRA (Water Resources Act)/ LAU areas (areas for storage, filling and transfer facilities for water contamination)

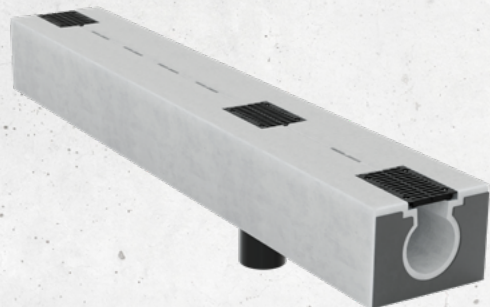
BIRCOport – the dimensionally stable channel designed to withstand maximum vertical and horizontal forces

* German Institute of Building Technology



Precisely planned / quickly installed / reliable for decades

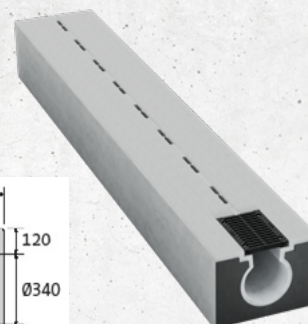
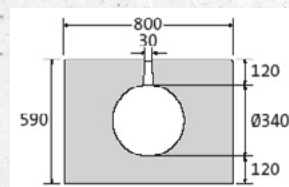
- + Tailored, project-specific and personalised: our planning support
- + DIBt*-certified safety for streamlined approval procedures
- + Cost- and time-efficient installation for ready-to-use spaces
- + Rapid construction progress thanks to long spans with few joints
- + Everything made to measure: custom-fitted gutters available on request
- + Structural analyses for different load case groups and soil properties
- + Seamless connection to adjacent concrete surfaces
- + Freely configurable inspection and drainage openings, easy maintenance
- + The textured surface provides good grip even in wet conditions
- + Large retention volume: reliable drainage
- + Long-lasting performance thanks to high-quality 'Made in Germany' materials



Example: BIRCOport with a drain outlet and a second inspection opening above the outlet

BIRCOport

- + High-quality C 40/50 reinforced concrete
- + Slotted channel without internal gradient, DN 340 profile
- + Can be used with or without an on-site foundation
- + Self-cleaning slot, slot length (top/bottom): 300/320 mm, slot width (top/bottom): 30/50 mm
- + Pre-assembled PE-foam panel
- + Double-slotted DI grating for easy inspection of the sealing joint
- + Profiled surface
- + ASR-resistant acc. to DIN 1045-2
- + Load class: F 900 (DIN EN 1433) or individual static verification



DESCRIPTION	LENGTH	WEIGHT	INLET CROSS-SECTION	LOAD CAPACITY ²⁾	ARTICLE NO.
Channel NW 340, Type I, class F 900 ^{1) 2)}	5000 mm	4,662 kg	1540 cm ² /m	Load capacity BFZ 750 + A380-800	413428
Channel NW 340, Type M, class F 900 ¹⁾	5000 mm	4,728 kg	1540 cm ² /m	Load capacity BFZ 750 + A380-800	413424

¹⁾ Fitting channels / special lengths available on request

²⁾ Type I installation: Significant variations in ground conditions require individual structural analysis; please contact us for further details

ADDITIONS TO STANDARD CHANNELS

DESCRIPTION	ITEM NO.
Factory installation of an additional integrated inspection opening in the BIRCOport channel (double-slotted DI grating, without outlet)	413498
Factory installation of an outlet, including a PE pipe (nominal diameter 160 mm) in the channel base, and an additional double-slotted DI grating	413495
Factory installation of an outlet, including a PE pipe (nominal diameter 225 mm) in the channel base, and an additional double-slotted DI grating	413496
Factory installation of an outlet, including a PE pipe (nominal diameter 315 mm) in the channel base, and an additional double-slotted DI grating	413497

END CAP FOR DN 340

DESCRIPTION	WIDTH	WEIGHT	ITEM NO.
Galvanised end cap ¹⁾	800 mm	10.2 kg	413440

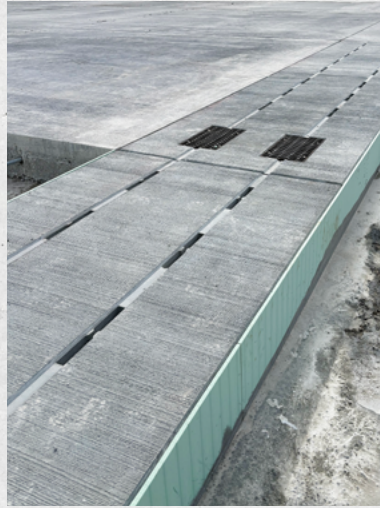
¹⁾ V2A/V4A on request

LIFTING ACCESSORIES FOR INSTALLATION

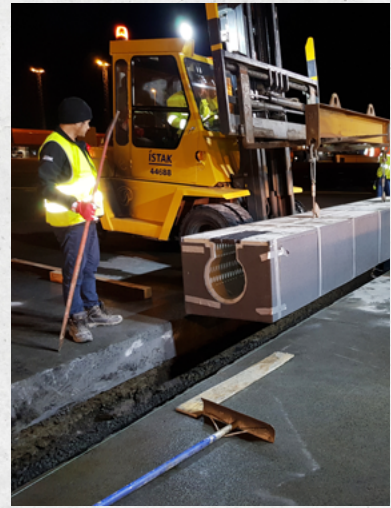
DESCRIPTION	ITEM NO.
Lifting accessories, set of 2	606140



Franz-Josef-Strauß Airport,
Munich, Germany



Zurich International Airport,
Switzerland



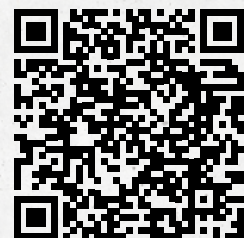
Reykjavik-Keflavik Airport,
Iceland

Just three of many: BIRCO has supported more than 35 airport projects by providing expert planning, top-quality 'Made in Germany' products and on-site installation support. Drainage is our passion, concrete is in our DNA: your project is our challenge.

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Information about
BIRCOport